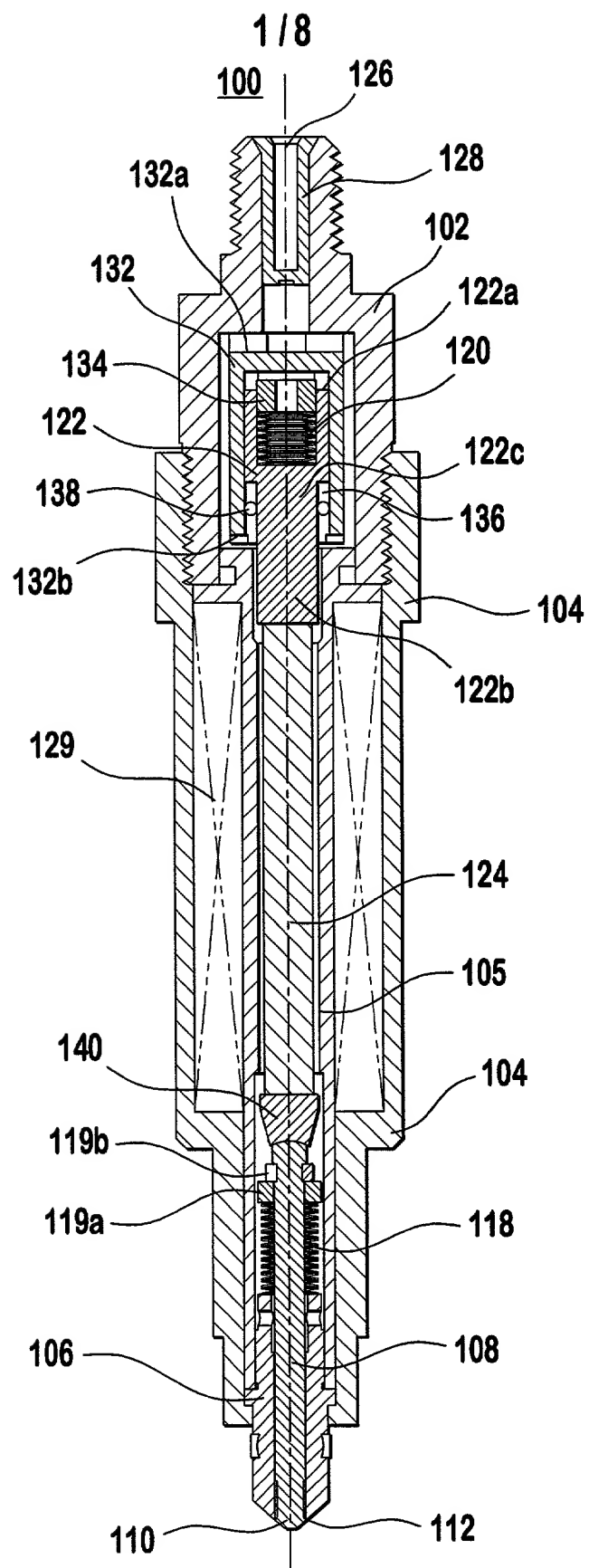


FIG. 1



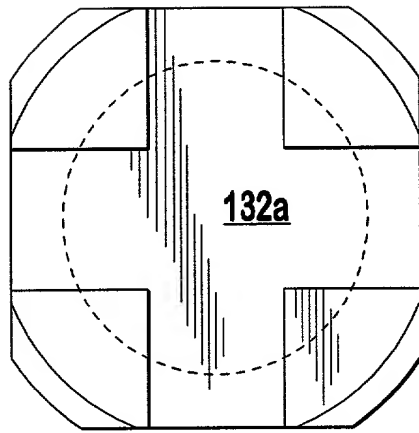
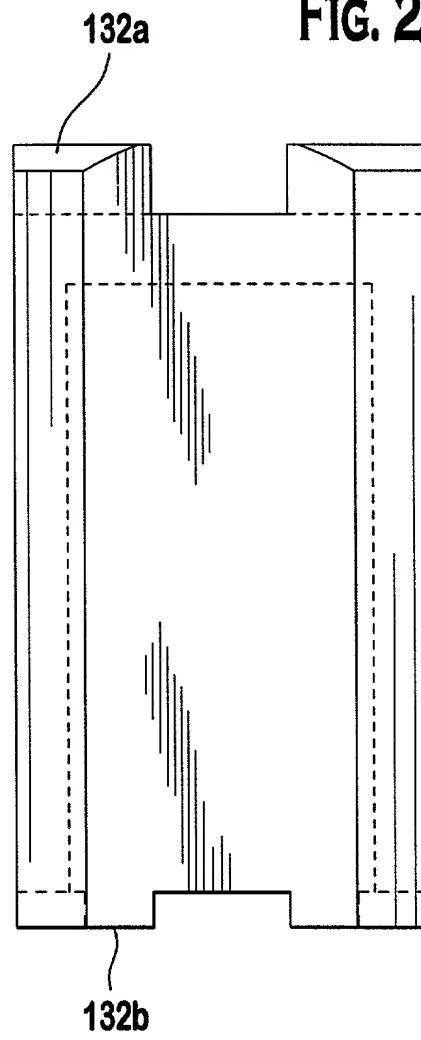


FIG. 2A

132

FIG. 2B

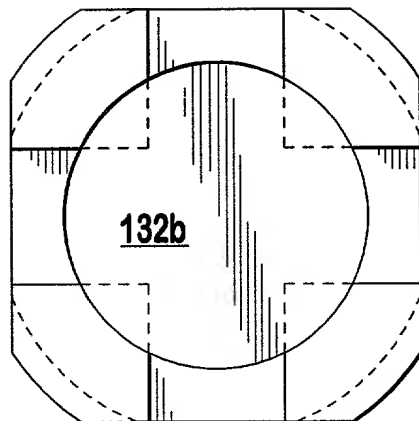


132a

132

132b

FIG. 2C



132

132b

FIG. 3A

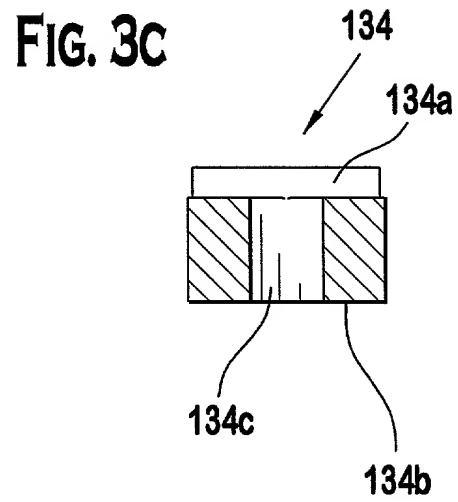
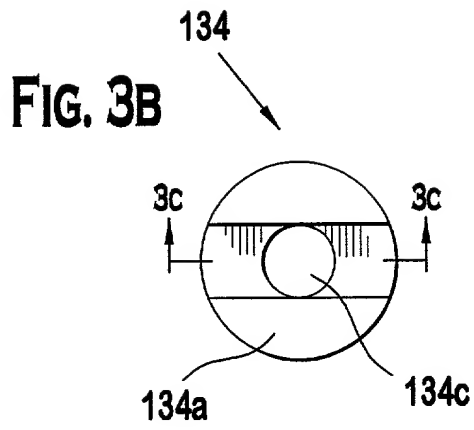
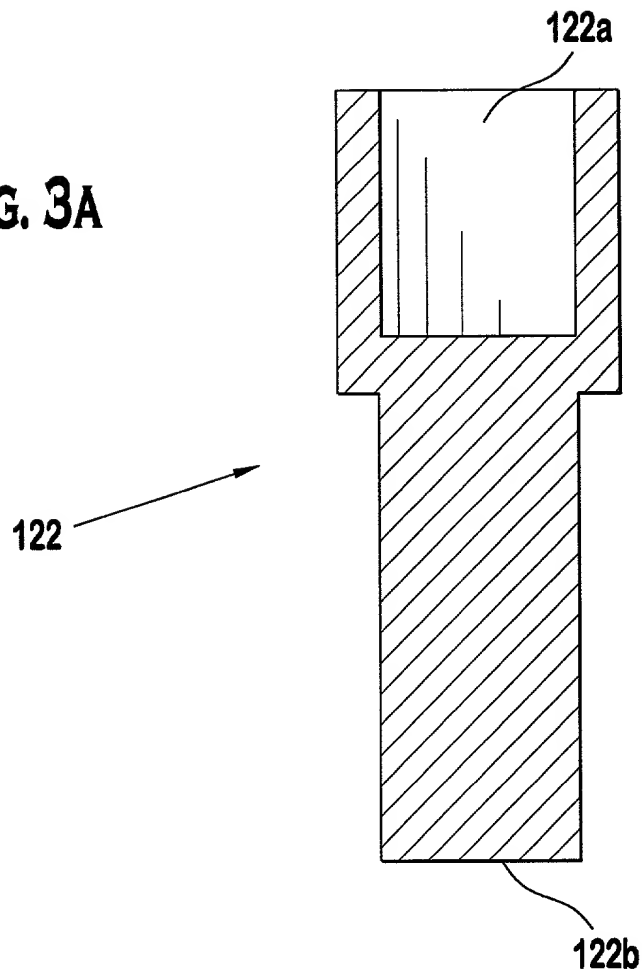
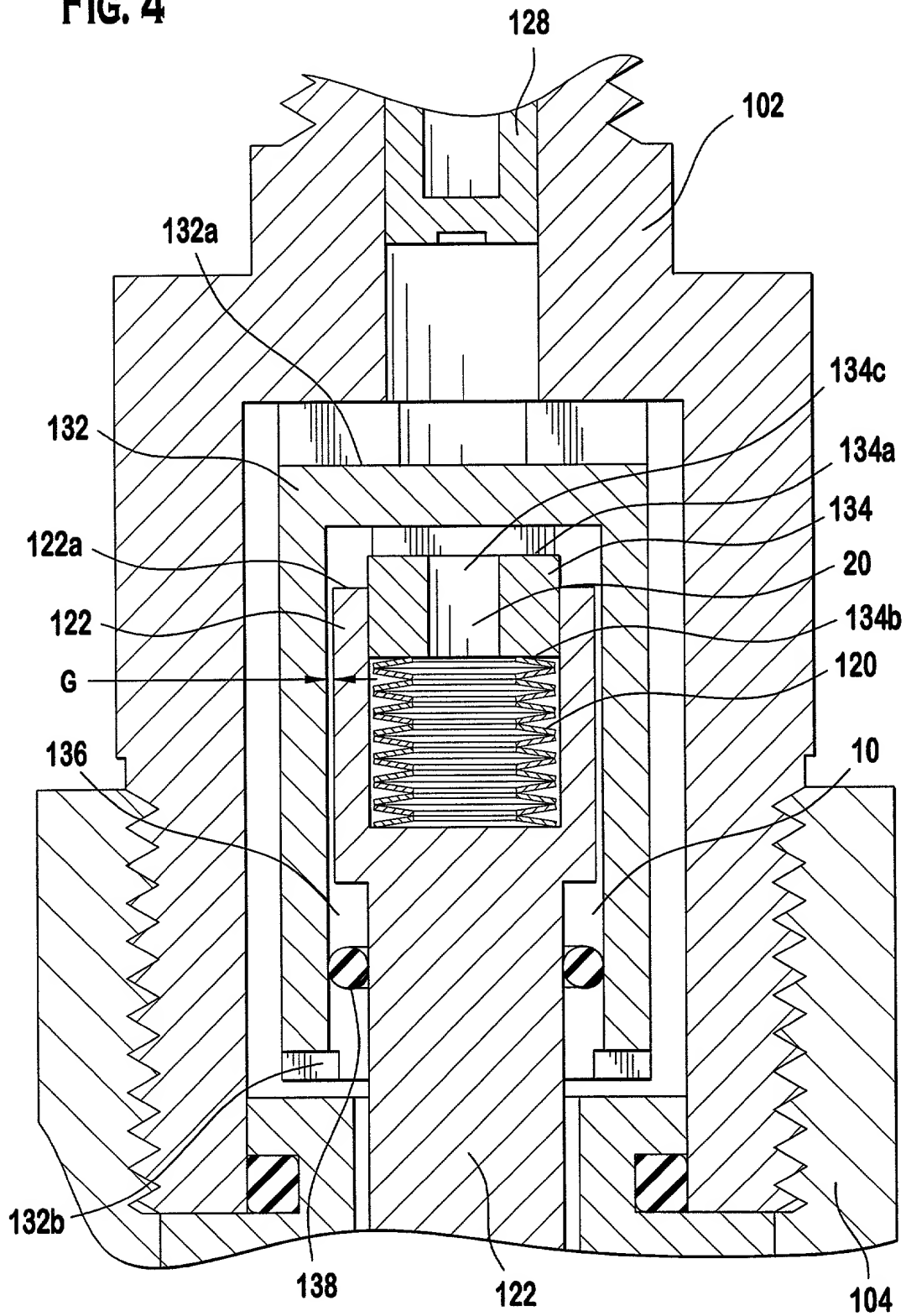


FIG. 4



5/8

FIG. 5

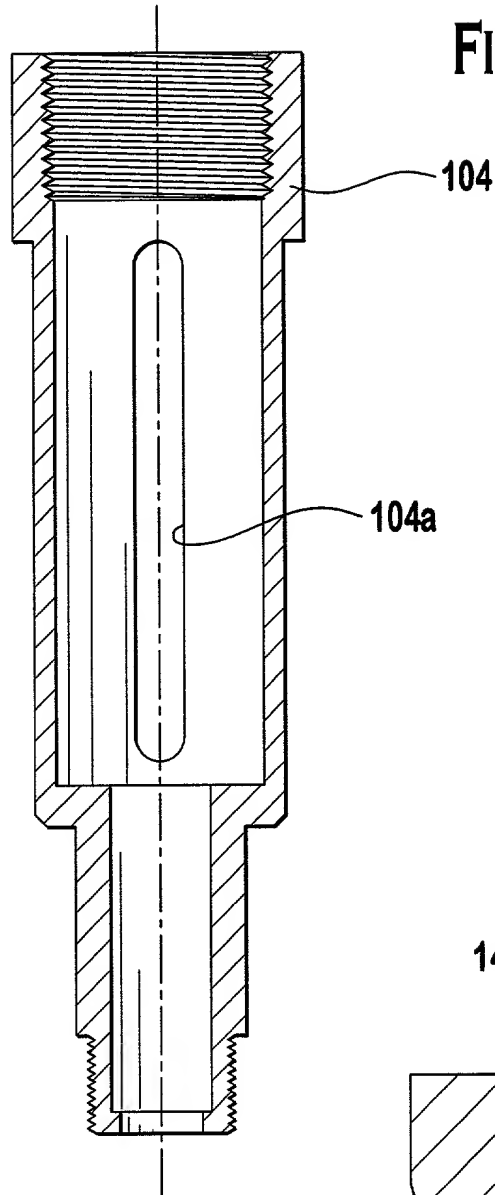


FIG. 6

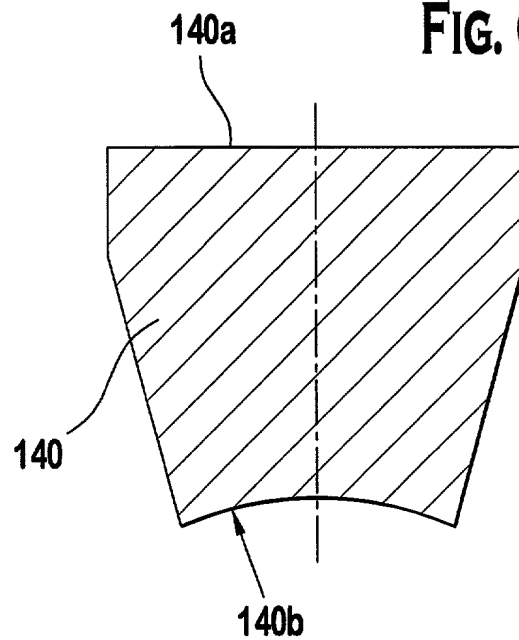


FIG. 7

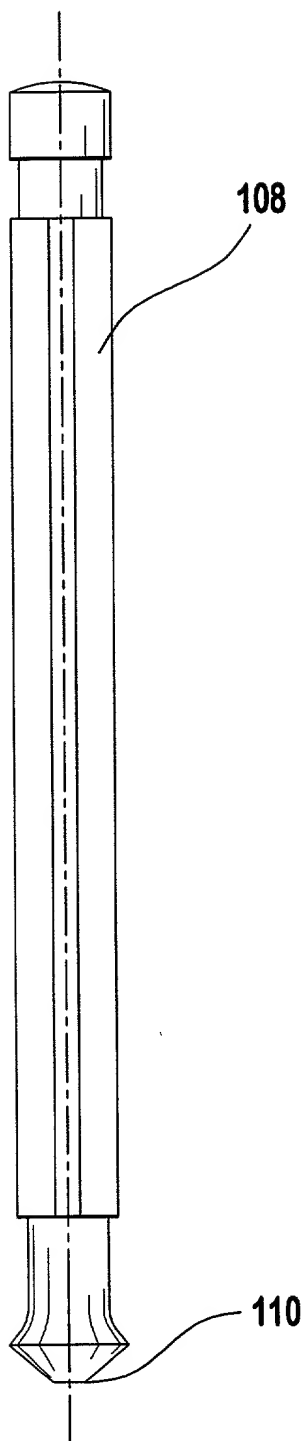


FIG. 8

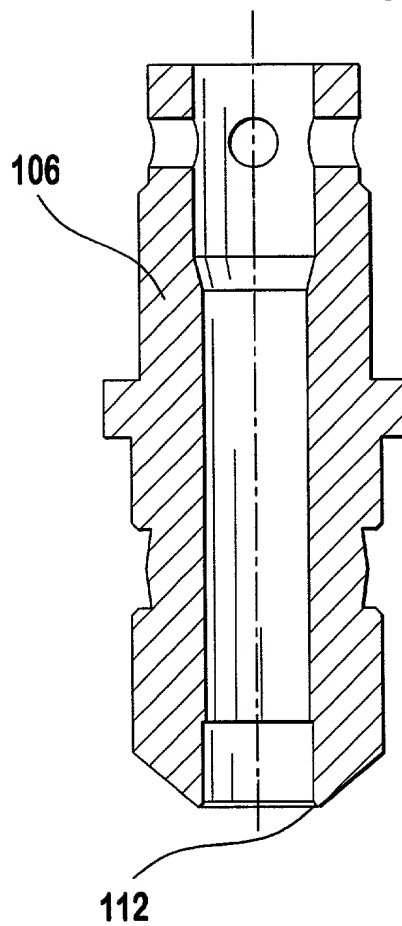


FIG. 9 is a schematic diagram of a magnetic fluid device in two states: a zero magnetic field state and a saturated magnetic field state. The diagram illustrates the effect of a magnetic field on the viscosity of a carrier fluid containing magnetic particles.

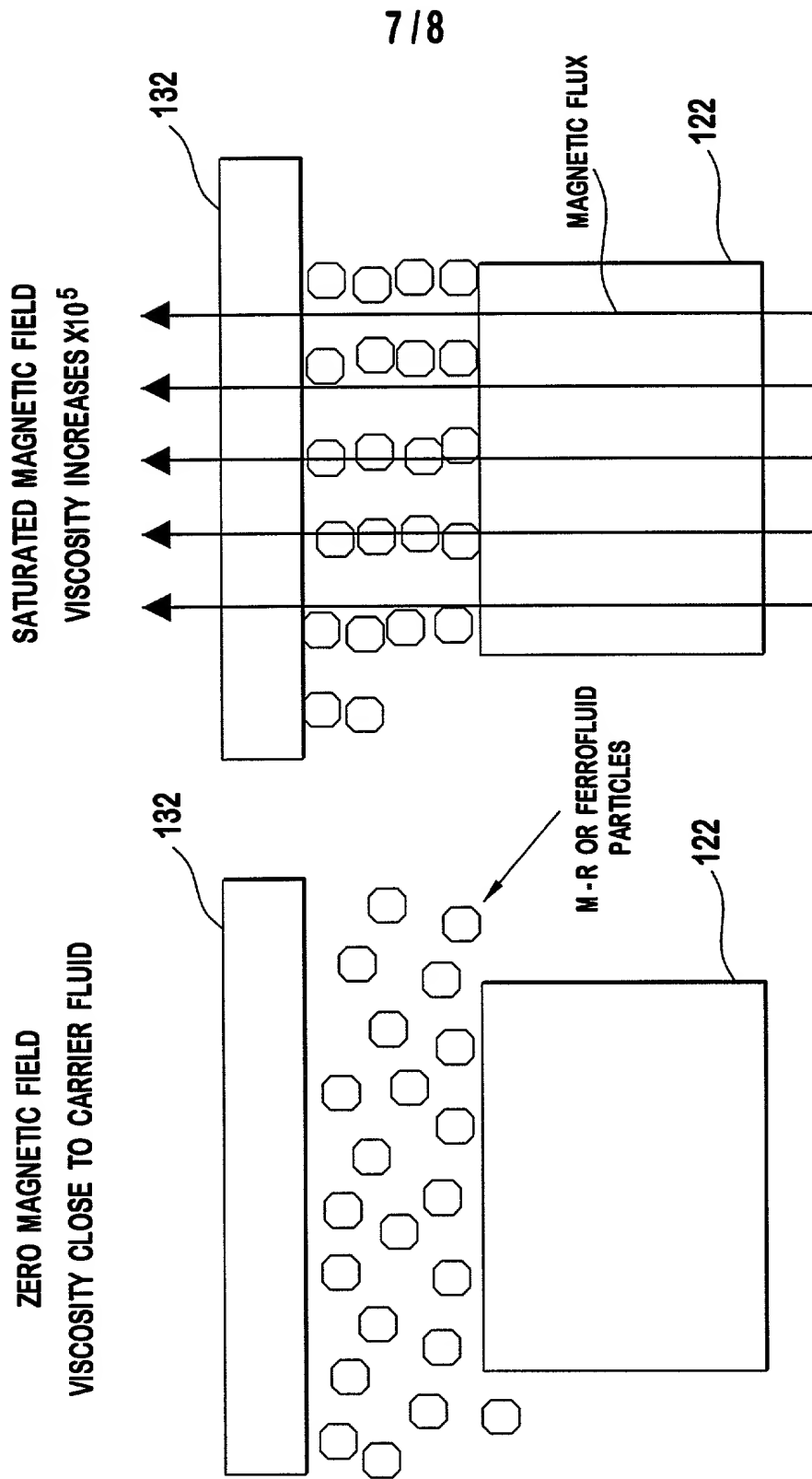


FIG. 9

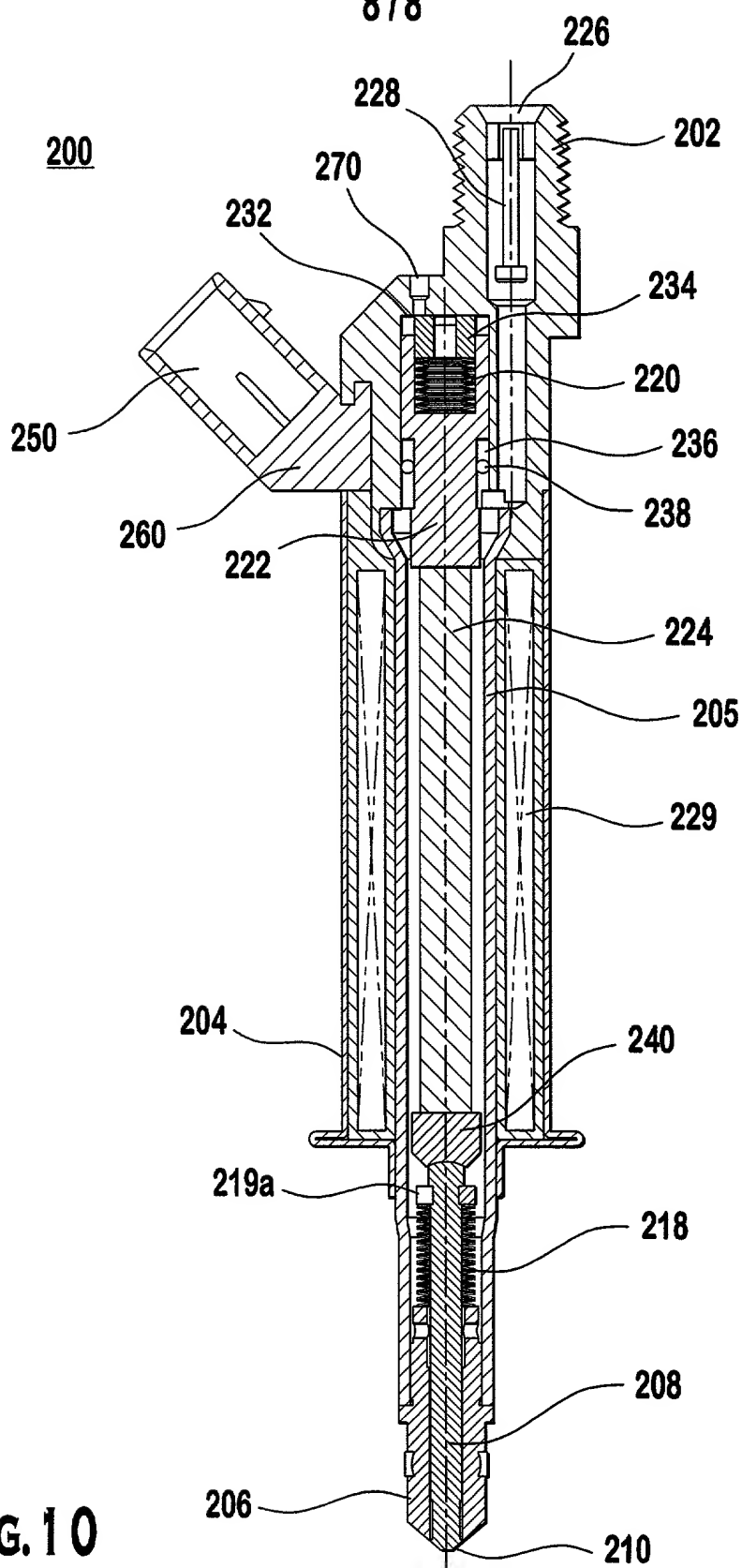


FIG. 10